

**WHAT IS CLAIMED IS:**

- 5           1.     Isolated DNA encoding the *Sbf*I restriction  
endonuclease, wherein the isolated DNA is obtainable from  
*Streptomyces species Bf-61*.
- 10           2.     A recombinant DNA vector comprising a vector into  
which a DNA segment encoding the *Sbf*I restriction endonuclease  
has been inserted.
- 15           3.     Isolated DNA encoding the *Sbf*I restriction  
endonuclease and *Sbf*I methylase, wherein the isolated DNA is  
obtainable from ATCC No. PTA-5371.
4.     A vector which comprises the isolated DNA of claim 3.
5.     A host cell transformed by the vector of claim 2 or 4.
- 20           6.     A method of producing recombinant *Sbf*I restriction  
endonuclease comprising culturing a host cell transformed with  
the vector of claims 2 or 4 under conditions suitable for  
expression of said endonuclease.